

### **REMARKS**

The applicant respectfully request reconsideration in view of the following remarks. The applicant has incorporated claims 6 and 8 into claim 1. It is noted that the applicant did not incorporate the definition of triarylamine from claim 8 into claim 1. Support for newly added claim 24 can be found in the original claims 1 and 2. Support for newly added claims 25 and 26 can be found in the original claim 2 and the examples which use fluorine. Support for newly added claim 27 can be found in claims 6 and 8. No new matter has been added. The applicant has added four claims (claims 24-27) and cancelled 4 claims (claims 6, 8, 11 and 12). No fee is required for the extra claims.

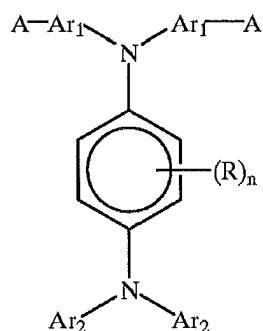
Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by 5,948,552 (Antoniadis). Claims 21 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Antoniadis in view of 6,858,703 (Allen). Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Antoniadis in view of Allen and further in view of 6,740,900 (Hirai). The applicant respectfully traverses these rejections.

#### **Rejections Over Antoniadis**

Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Antoniadis. Claims 21 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Antoniadis in view of Allen. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Antoniadis in view of Allen and further in view of Hirai.

Antoniadis discloses polymers containing units of formulae (II) and (III), but do not disclose other copolymers.

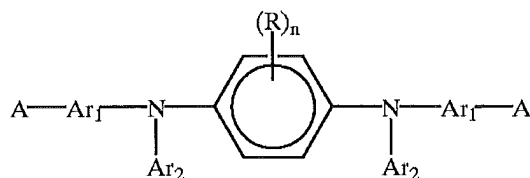
Formula (II)



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Formula (III)



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(see col. 9, lines 28-

50).

The applicant has three independent claims (claims 1, 13 and 24).

### **Independent Claims 1 and 13**

The applicant's amended claims 1 and 13 require that the second repeat unit is selected from optionally substituted phenyl, fluorene, spirobifluorene, indenofluorene, heteroaryl or dihydrophenanthrene. Antoniadis discloses a triarylamine but does not disclose nor teach the applicant's claimed second repeat unit being selected from optionally substituted phenyl, fluorene, spirobifluorene, indenofluorene, heteroaryl or dihydrophenanthrene. Antoniadis teaches away from the applicant's claimed invention. For this reason alone the claims are not anticipated by, nor rendered obvious over Antoniadis.

The polymers of the present application which contain repeat units of formula (I) with at least one substituent as well as the claimed co-units, are significant bluer than the unsubstituted units as disclosed in the prior art (specification, page 3, paragraph below the summary of the invention). The blue emission of the copolymers, described by the CIE-color coordinates, is also

clearly described in the working examples of the present application (see especially page 25 of the specification). These results are unexpected!

**Claim 24**

It is noted that Antoniadis does not disclose that the substituent on Ar<sup>1</sup> or Ar<sup>2</sup> is selected from the group consisting of optionally substituted, aliphatic or alicyclic C<sub>1-20</sub> fluoroalkyl; halogen; nitro; cyano; sulfone and sulfoxide as is required by the applicant's newly added claim 24.

Furthermore, the dependent claim 26 requires a fluorinated substituent on Ar<sup>1</sup> or Ar<sup>2</sup>. This clearly is not by Antoniadis.

The secondary references do not cure the deficiency of the Antoniadis. For the above reasons, these rejections should be withdrawn.

In view of the above amendment, applicant believes the pending application is in condition for allowance. Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 03-2775, under Order No. 14113-00040-US from which the undersigned is authorized to draw.

Respectfully submitted,

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